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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | |
|---|---------------|----------------------|-------------------------|------------------|--|--|
| 09/496,137 | 02/01/2000 | Steven Schkolne | 06618/414001/CIT-2945 | 5771 | | |
| 20985 75 | 90 12/24/2003 | | EXAM | EXAMINER | | |
| FISH & RICHARDSON, PC 12390 EL CAMINO REAL | | | NGUYEN, PHU K | | | |
| SAN DIEGO, CA 92130-2081 | | * | ART UNIT | PAPER NUMBER | | |
| | | | 2671 | 8, | | |
| | | | DATE MAILED: 12/24/2003 | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|--|--|--|--|--|-----------------|--|--|
| | | Applica | ation No. | Applicant(s) | | | |
| Office Action Summary | | 09/496 | ,137 | SCHKOLNE ET AL. | SCHKOLNE ET AL. | | |
| | | Examin | ier | Art Unit | | | |
| | | | Nguyen | 2671 | | | |
| ۔۔ Period for I | The MAILING DATE of this commu Reply | nication appears on t | the cover sheet wit | h the correspondence addre | ess | | |
| THE MA - Extension after SIX - If the per - If NO per - Failure to - Any reply | RTENED STATUTORY PERIOD ALLING DATE OF THIS COMMUNITY OF THIS COMMUNITY OF THIS FORMAL OF THIS COMMUNITY OF THIS FORMAL OF THI | NICATION. us of 37 CFR 1.136(a). In no umunication. (30) days, a reply within the setatutory period will apply and usy will, by statute, cause the a | event, however, may a re statutory minimum of thirty d will expire SIX (6) MONT application to become ABA | ply be timely filed (30) days will be considered timely. HS from the mailing date of this comm | nunication. | | |
| 1)⊠ R | esponsive to communication(s) fi | led on <u>20 <i>March</i> 200</u> | <u>00</u> . | | | | |
| 2a)□ TI | nis action is FINAL. | 2b)⊠ This action is | non-final. | | | | |
| | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposition | of Claims | | | | | | |
| 4)⊠ C | aim(s) 1-31 is/are pending in the | application. | | | | | |
| 4a | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| 5)⊠ C | ☑ Claim(s) <u>31</u> is/are allowed. | | | | | | |
| 6)⊠ Cl | ⊠ Claim(s) <u>1,4,8-17 and 21-30</u> is/are rejected. | | | | | | |
| 7)⊠ Cl | | | | | | | |
| 8)□ C | aim(s) are subject to restr | iction and/or election | requirement. | | | | |
| Application | Papers | | | | | | |
| 9)∏ Th | e specification is objected to by t | he Examiner. | | | | | |
| 10)⊠ Th | e drawing(s) filed on <u>01 Februar</u> y | <u>∕ 2000</u> is/are: a) a | accepted or b) 🛛 o | bjected to by the Examiner | r. | | |
| • | oplicant may not request that any obj | | | | | | |
| · · · · · · · · · · · · · · · · · · · | eplacement drawing sheet(s) includir | | | | 1.121(d). | | |
| 11)∐ Th | e oath or declaration is objected | to by the Examiner. | Note the attached | Office Action or form PTO | -152. | | |
| Priority und | ler 35 U.S.C. §§ 119 and 120 | | | | | | |
| 12)□ A | cknowledgment is made of a clair | n for foreign priority | under 35 U.S.C. § | 119(a)-(d) or (f). | | | |
| | All b) Some * c) None of: | , | · · | | | | |
| | Certified copies of the priority | • | | . Par Par Ala | | | |
| | Certified copies of the priorityCopies of the certified copies | | | | ane | | |
| J. | application from the Internati | | | Cocived in this Mational Of | ago | | |
| | the attached detailed Office acti | on for a list of the ce | ertified copies not r | | | | |
| sinc | nowledgment is made of a claim e a specific reference was includ CFR 1.78. | | | | | | |
| _ | The translation of the foreign la | nguage provisional | application has be | en received. | | | |
| | nowledgment is made of a claim rence was included in the first se | | | dication Data Sheet, 37 CF | FR 1.78. | | |
| Attachment(s) | | | | | Ugyu | | |
| 1) Notice o | f References Cited (PTO-892) | | | ımmary (PTO-413) Paper No(s). | | | |
| 2) Notice o | f Draftsperson's Patent Drawing Review | (PTO-948) | | formal Patent Application (PTO-1 | 52) | | |
| 3) 🔲 Informat | ion Disclosure Statement(s) (PTO-1449) | raper No(s) | 6) Dother: | • | • | | |

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 4, 8-17, and 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over DANIELS et al. (6,268,865) in view of IWAMURA (6,501,515).

As per claim 1, and 15, Daniels teaches the claimed "method for producing a shape" comprising:

Tracking a user's hand (Daniels, column 27, lines 24-40); and

Forming a 3D modeled surface by adding shapes defined by hand movements at each of a plurality of intervals (Daniels, figure 1).

lwamura teaches the virtual reality environment in which positions of a user's hand are track (lwamura, column 4, line 49 to column 5, line 52). It would have been obvious at the time the invention was made, in view of the teaching of lwamura, to

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configure Daniels' method as claimed because the input signal generated by handmovement input device can be generated by any well known input device such as a hand tracking in a virtual reality environment.

Claim 4 adds into claim 1 "taking a mesh sample, to change it and add to a new sample" which would have been obvious because the input signal from the monitor of hand's gesture can be used to define to any graphical manipulation such as editing the object.

Claim 8, and claims 22-23, adds into claim 1 "defining a first and second hand positions as a starting and stopping positions, respectively" which Daniels teaches in the hand stroke (fig. 1).

Claim 9 adds into claim 1 "an eraser tool" which would have been obvious because the input signal received from the input device can be applied as drawing or eraser stroke.

Claim 10 adds into claim 1 "a plurality of props" which would have been obvious because the input signal can be used to manipulate any graphic tool such as props.

Claim 11 adds into claim 10 that the props are tongs which would have been obvious because the tongs are a widely graphical device to manipulate the object.

Claim 12 adds into claim 10 that the props are spherical ball which would have been obvious because the spherical balls are a widely graphical device to manipulate the object.

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Claim 13 adds into claim 10 that the props are sponges to alter the object which would have been obvious because the sponges are a widely graphical device to manipulate the object.

Claim 14 adds into claim 12 that the altering is smoothing which would have been obvious because the smoothing is a widely used graphical manipulation.

Claim 16 adds into claim 15 "create 3d-strokes of shape" which Daniels teaches in figure 1.

Claim 17 adds into claim 16 "using the bend of the hand to define the curvature of 3D-strokes" which would have obvious because the input signal from the monitor of hand's gesture can be used to define to any graphical manipulation such as the curvature.

Claim 21 adds into claim 16 "use hand postures to switch between different modes" which would have been obvious because the input signal from the monitor of hand's gesture can be used to define to any graphical manipulation such as "switching modes".

Claim 24 adds into claim 16 "displaying different tools based on different postures" which would have obvious because the input signal from the monitor of hand's gesture can be used to define to any graphical tools.

Claim 25 adds into claim 16 "using the finger to draw a narrower stroke" which would have obvious because the input signal from the monitor of hand's gesture can be used to define to any graphical manipulation such as the narrower stroke.

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Claim 26 claim a drawing device based on the system of claim 1, therefore, it is rejected under the same reason.

Claims 27 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over DANIELS et al. (6,268,865) .

As per claim 27, Daniels teaches the claimed "shape drawing system" comprising:

"a user interface which operates to command shapes to be created" (Daniels, figure 1). It would have been obvious to use Daniel's input device (figure 29) to add the surface region to an extent surface because Daniels' graphical object creator can be use to create the object and add it the existing objects.

Claim 29 claims a method based on the system of claim 27 and adds the step of deforming the object which would have been obvious because Daniels image manipulator can be used to applied any well known image manipulations such as a deformation operation.

Claims 28 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over DANIELS et al. (6,268,865) in view of IWAMURA (6,501,515).

Claim 28 adds into claim 27 "hand movement tracking" which Iwamura teaches in column 4, line 49 to column 5, line 52. It would have been obvious at the time the invention was made, in view of the teaching of Iwamura, to configure Daniels' method as claimed because the input signal generated by hand-movement input device can be generated by any well known input device such as a hand tracking in a virtual reality environment.

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Claim 30 claim a method based on the system of claim 28, therefore, it is rejected under a similar reason.

Claim 31 is allowed.

Claims 2-3, 5-7, 18-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu K. Nguyen whose telephone number is (703)305 - 9796. The examiner can normally be reached on M-F 8:00-4:30.

The fax phone number for the organization where this application or proceeding is assigned is (703)308-6606. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3800.

Phu K. Nguyen December 14, 2003